# Description of the course of the Plant Ecology

Course Name					
Plant Ecology	Plant Ecology				
CourseCode	CourseCode				
PLAE212					
Semester/ Year					
Second / 2025					
Date of preparation of this description	on				
15 Junuary 2025					
Available attendance forms					
Full-time (theoretical lecture and pra	actical lecture) weekly				
Number of Credit Hours (Total)/ Nu	mber of Units (total)				
2 theoretical hours and 3 working hounits	ours per week for 14 weeks, the number of units is 3.5				
Name of the course administrator (i	f more than one name is mentioned)				
:Dr. Hassan Ali Majeed	Email: hasanmajeed@uodiyala.edu.iq				
Nabil Ibrahim Mohamed					
Course Objectives					
Course objective	1- Plant ecology is concerned with the study of plants as they relate to each other and as they relate to the conditions of the environment in which they live. " It deals with the study of individual plants to find out their living conditions in their natural environments and the extent to which they are affected by the surrounding factors, and the extent to which they interact with them.				

## Teaching and Learning Strategies

Strategy

• In-person lectures for 14 weeks, interspersed with two monthly exams, daily exams and scientific reports

#### Theoretical

#### Course Structure

Week	Credits	Intended Learning Outcomes	Module / Course Name or	Teaching*method	Evaluation Method
		Introduction to		Explanation and model	Examinations
		Ecology		presentation	Daily and
1	2		Plant Ecology	and lecture	Monthly
1	2		Trant Leology	Brainstorming Debating	Final and
				and discussing	Reports
				Brainstorming	day
		Importance of	Plant Ecology	Explanation and model	Examinations
		Environment		presentation	Daily and
2	2			and lecture	Monthly
2	2			Brainstorming Debating	Final and
				and discussing	Reports
				Brainstorming	day
		4.2. Climatic	Plant Ecology	Explanation and model	Examinations
		Factors		presentation	Daily and
3	2			and lecture	Monthly
3				Brainstorming Debating	Final and
				and discussing	Reports
				Brainstorming	day
4	2	Lumen	Plant Ecology	Explanation and model presentation	Examinations

					and lecture	Daily and
					Brainstorming Debating	Monthly
					and discussing	Final and
					Brainstorming	Reports
						day
		Temperature	Plant Ecolo	ogy	Explanation and model	Examinations
				presentation		Daily and
5	2				and lecture	Monthly
3	2				Brainstorming Debating	Final and
					and discussing	Reports
					Brainstorming	day
		Test (1)	Plant Ecolo	ogy	Explanation and model	Examinations
					presentation	Daily and
6	2				and lecture	Monthly
0	2				Brainstorming Debating	Final and
					and discussing	Reports
					Brainstorming	day
			De	W	L	
		fogs	Plant Expl		Explanation and model	Examinations
			Ecology		presentation	Daily and
7	2				and lecture	Monthly
/	2			Bra	ainstorming Debating and	Final and
					discussing	Reports
					Brainstorming	day
		Air	Plant	]	Explanation and model	Examinations
			Ecology		presentation	Daily and
0	2				and lecture	Monthly
8	2			Bra	ainstorming Debating and	Final and
					discussing	Reports
					Brainstorming	day

		Topographical	Plant	Explanation and model	Examinations
		Factors	Ecology	presentation	Daily and
	2			and lecture	Monthly
9	2			Brainstorming Debating and	Final and
				discussing	Reports
				Brainstorming	day
		Soil factors	Plant	Explanation and model	Examinations
			Ecology	presentation	Daily and
10	2			and lecture	Monthly
10	2			Brainstorming Debating and	Final and
				discussing	Reports
				Brainstorming	day
		fogs	Plant	Explanation and model	Examinations
			Ecology	presentation	Daily and
11	2			and lecture	Monthly
11	2			Brainstorming Debating and	Final and
				discussing	Reports
				Brainstorming	day
		Test _0002	Plant	Explanation and model	Examinations
12 2			Ecology	presentation	Daily and
			and lecture	Monthly	
12	2			Brainstorming Debating and	Final and
				discussing	Reports
				Brainstorming	day
			Plant	Explanation and model	Examinations
			Ecology	presentation	Daily and
13	2			and lecture	Monthly
13	2			Brainstorming Debating and	Final and
				discussing	Reports
				Brainstorming	day
		1			1

			Explanation and model	Examinations
			presentation	Daily and
14	2		and lecture	Monthly
14	2		Brainstorming Debating and	Final and
			discussing	Reports
			Brainstorming	day
				Examinations
15	2		Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Daily and Monthly Final and Reports day

	Practical Part						
Week	Credits	Intended Learning Outcomes	Name of the unit or course	Learning Method	Evaluation Method		
1	3	Ecology	Plant Ecology	Case history Brainstorming Debating and	Examinations Daily and Monthly		
2	3	Psychrometry (Meteor.)	Plant Ecology	Case history Brainstorming Debating and	Examinations Daily and Monthly Final and		
3	3	Rain gauge	Plant Ecology	Case history Brainstorming Debating and	Examinations Daily and Monthly Final and		
4	3	Checked Warning type windshear detection system	Plant Ecology	Case history Brainstorming Debating and	Examinations Daily and Monthly		
5	3	Quiz 1	Plant Ecology	Case history Brainstorming Debating and	Examinations Daily and Monthly		

		Salinization	Plant Ecology		Examinations
6					Daily and
		Vegetation	Plant Ecology	Case history	Examinations
7	3			Brainstorming	Daily and
/	3			Debating and	Monthly
				discussing	Final and
		soil moisture	Plant Ecology	Case history	Examinations
8	3			Brainstorming	Daily and
				Debating and	Monthly
		SECOND TEST	Plant Ecology	Case history	Examinations
9	3	SECOND TEST	Traint Ecology	Brainstorming	Daily and
	3			Debating and	Monthly
			Plant Ecology	Case history	Examinations
10	3			Brainstorming	Daily and
	C			Debating and	Monthly
			Plant Ecology	Case history	Examinations
11	3			Brainstorming	Daily and
11	3			Debating and	Monthly
10			D1 . F . 1	dia assasina	Tinal and
12			Plant Ecology		
				Case history	Examinations
13	3			Brainstorming	Daily and
				Debating and	Monthly
				Case history	Examinations
14	3			Brainstorming	Daily and
17	3			Debating and	Monthly
				discussing	Final and

### Course Evaluation

Daily and monthly exams, reports and student effectiveness during the lecture .

## Learning and Teaching Resources;

Required textbooks ( methodology if any )	<ul> <li>1- Plant Environment Book</li> <li>2- Plant Ecology Kamal Hussain Shaltut</li> <li>3- Plant Environment Hikmat Al-Ani</li> </ul>
Key References (Sources)	Recent articles from the Internet, specialised scientific journals, the Journal of Agricultural Sciences - Iraq and the Virtual Library.
Recommended supporting books and references (scientific journals,	Iraqi academic scientific journals
E-References, Websites	. Plant ecology